Shebin Elkom Educational Administration
Misr AL Hurral DGL School

Mid-term Science Exam
Second Term 2017 - 2016

Grade :- six prim.
Time :- 1 ½ Hours

Name / ..... Class / .....

Q1)A- Write the Scientific term:

1- A type of lever that sometimes its arm of force equals its arm of resistance.
(----------)

2- A danger that occurs when you place flammable materials near electric devices that generate heat.
(----------)

3- A closed path in which electricity can pass through. (----------)

4- It carries the lamp upright and connects the lamp to the electric source.(----------)

B- Complete the following sentences:

1-The Filament of the light bulb is made of ..... and that is because it has a high ----------

2-The type of levers that always conserves effort is ..... while the type of the le.ers that always does not conserves effort is .....

3- Electric lamps convert..... .....energy into.....energy

4- copper is from electric---------- but wood is from electric----------

. Q2) A - Put(√) or (×):

1- Fluorescent lamp contains neon gas. ( )
2- Water is used to extinguish electric fire . ( )
3- Crowbar is an example of the first class lever . ( )
4- Spiral base of light bulb contain one piece of lead . ( )

B) What happens when ... ?

1- Plugging several machines in one socket.

2- You touch an electric device with wet hands.

C)what is the function of

1- lever 2- glass bulb of light bulb

c)Choose the correct answer

1- From second class lever (manual broom – nutcracker - water pump)
2- When the electric lamps connected in series the light intensity
(increase – decrease – not change)
3- Found in fluorescent lamp and not found in electric bulb
(water vapour – mercury vapour – argon gas)
4- Result from passing electric current through human body is electric
(burn – fire - shock)

Q3 A)- Give reasons for:

1-Do not place any metallic object inside the electric socket.

2- Electric lamps are connected in parallel in house

B) The exerted force of first class lever = 3 Newton and the length of its arm =20cm and it is affected by resistance =30 Newton find the resistance arm

Name:..... Class: 2016/ 2017	Mathematics ***Mid-Term Exam*** **Primary six T_2**	Shebin El-kom Educational Administration Misr Al-Hurra IDEL School

Question (1) : Choose the correct answer:

[1] $Z^- \cap Z^+$ = ... (Z , {0} , N , ∅)

[2] The multiplicative identity element is ..... (0 , 1 , -1 , 2)

|3| If $|x| - 9$. *then* $x - \cdots ....$ (9 , ± 9 , -9 , ±3)

|4| $(-2)^4 + (-3)^3$ ..... 1 (> , < , =)

[5] The number whose complete the pattern : 1,2,3,5,8,.....is (65 , 21 , 47 , 13)

Question (2) :Complete :

|1| 35 x (100 – 1) = 35 x ..... — 35 x .....

[2] 9 + (-9) =.....

[3] The number of integer numbers from **-2** to **3** is .....

[4] The greatest negative number is .....

[5] The image of the point (-3 , 5) by translation (x+2 , y) is .....

Question (3) :

a) Find the result

|1| $(-1)^{30} + (-1)^{31}$ = ...

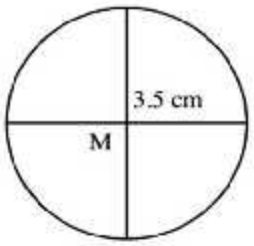
[2] $\frac{5^5 \times (-5)^3}{(-5)^6 \times 5}$ = ...

|3| $[8 + (-2)] \times (-10) = \cdots$

.....

b) In the opposite figure ,a circle M of radius 3.5 cm, is divided into four equal circular sectors. Calculate the surface area of one sector

($\pi = \frac{22}{7}$)



.....

.....

.....

Question (4) : **Determine in the coordinate plane :**

The following points A (-3, 1) , B (1 , 1) , and C (1 ,2) , then find :

a) AB = ... , BC = ...

b) The image of triangle ABC by the translation (0 , -3)